

Title (en)

Archival recording media with improved information layer and associated substrate.

Title (de)

Aufzeichnungsmedien für Archivszwecke mit verbesserter Informationsschicht und damit verbundenem Substrat.

Title (fr)

Moyens d'enregistrement d'archives à couche d'informations améliorée et substrat y associé.

Publication

**EP 0079741 A2 19830525 (EN)**

Application

**EP 82305935 A 19821108**

Priority

US 31946681 A 19811109

Abstract (en)

Embodiments show a recording medium adapted for recording and read-out with relatively low-power laser means to write digital data "bits" (as reflectance changes) for high density computer storage. One preferred medium comprises a disk support having an "anti-reflective" surface on which is laid a gold "information layer" adapted to absorb recording radiation (from laser beam) and so "write" the bits. The anti-reflective surface may comprise a high-reflectance surface, like an aluminum film, covered with a transparent (to beam) dielectric "spacer" like SiO<sub>2</sub>. The gold (absorber) layer exhibits surprisingly high sensitivity, apt for low power recording, and extended archival stability; more surprising, it appears to be formed without any evidence of the usual "pit formation" or other deformation and by relatively slight laser-heating, well below the melting point!

IPC 1-7

**G11B 7/24**

IPC 8 full level

**B41M 5/26** (2006.01); **G11B 7/24** (2013.01); **G11C 13/04** (2006.01)

CPC (source: EP)

**G11B 7/24** (2013.01)

Cited by

EP0092707A3

Designated contracting state (EPC)

BE DE FR GB IT NL SE

DOCDB simple family (publication)

**EP 0079741 A2 19830525**; **EP 0079741 A3 19840222**; **EP 0079741 B1 19881221**; DE 3279297 D1 19890126; JP S58501883 A 19831104; WO 8301704 A1 19830511

DOCDB simple family (application)

**EP 82305935 A 19821108**; DE 3279297 T 19821108; JP 50012183 A 19821105; US 8201561 W 19821105